

Application/Control Number: 10/528,827
Art Unit: 3753
August 10, 2007
Page 2

Claim Amendments:

Cancel claims 14, 16, 17, and 23, rewrite claims 12, 15, 18, and 20, and add the new claims 24 and 25, as follows:

1-11. (cancelled).

12. (currently amended) A mixing cartridge for single-lever mixing faucets, comprising:

a substantially cylindrical container;

a base disk, accommodated in said container proximate to one end face thereof and in which two intake ports are provided that are connectable, respectively, to a cold water feed duct and to a hot water feed duct;

a mixing disk, which is superimposed on said base disk and is crossed by a mixing port, said mixing disk being movable with respect to said base disk;

actuation means connected to said mixing disk and actuatable in order to vary a position of said mixing disk and of said mixing port with respect to said intake ports, so as to vary a degree of opening of said intake ports or a ratio between the opening degrees of said intake ports; and

a discharge duct connected to said mixing port and exiting from said container at an end face thereof that lies opposite said end face to which said base disk is proximate;

said base and mixing disks being mutually slidably coupled with one face thereof arranged on a coupling plane that is substantially perpendicular to an axis of said container;

said mixing disk being movable with respect to said base disk along a direction that is parallel to said coupling plane so as to vary the degree of opening of said intake ports and being rotatable about an axis thereof that is perpendicular to said coupling plane with respect to said base disk in order to vary the ratio between the degrees of opening of said intake ports;

Application/Control Number: 10/528,827
Art Unit: 3753
August 10, 2007
Page 3

said actuation means comprising a lever that is pivoted to said container about a pivoting axis that is parallel to said coupling plane and is connected to said mixing disk, said lever being rotatable with respect to said container about said pivoting axis for translational motion of said mixing disk with respect to said base disk and about the axis of said container for the rotation of said mixing disk with respect to said base disk; said lever being provided so as to rotatably engage in a seat formed on a face of said mixing disk that lies opposite said base disk.

13. (previously presented) The cartridge of claim 12, wherein said base and mixing disks are made of ceramic material.

14. (cancelled).

15. (currently amended) The cartridge of claim 14 12, wherein said base disk is detachably locked in said container and said mixing disk is movable with respect to said base disk along said direction that is parallel to said coupling plane starting from a closed position, in which said mixing port is spaced laterally with respect to said intake ports, to open positions, in which said mixing port is at least partially superimposed on at least one of said intake ports.

16. (cancelled).

17. (cancelled).

18. (currently amended) The cartridge of claim 17 12, wherein said lever, when said mixing disk is in said closed position, is arranged coaxially to said container for a free rotation of said lever about the axis of said container with respect to said mixing disk.

Application/Control Number: 10/528,827
Art Unit: 3753
August 10, 2007
Page 4

19. (previously presented) The cartridge of claim 18, comprising: a shaft with an axis thereof that coincides with said pivoting axis; said lever being fixed with one of its ends to said shaft that is further supported so as to be rotatable about said axis thereof by said container and protrude with axial ends thereof from said container through passages that lie in an arc-like shape configuration on a lateral surface of said container in order to allow rotation of said shaft about the axis of said container with respect to said container.

20. (currently amended) The cartridge of claim 12, wherein A mixing cartridge for single-lever mixing faucets, comprising:

a substantially cylindrical container;

a base disk, accommodated in said container proximate to one end face thereof and in which two intake ports are provided that are connectable, respectively, to a cold water feed duct and to a hot water feed duct;

a mixing disk, which is superimposed on said base disk and is crossed by a mixing port, said mixing disk being movable with respect to said base disk;

actuation means connected to said mixing disk and actuatable in order to vary a position of said mixing disk and of said mixing port with respect to said intake ports, so as to vary a degree of opening of said intake ports or a ratio between the opening degrees of said intake ports;

a discharge duct connected to said mixing port and exiting from said container at an end face thereof that lies opposite said end face to which said base disk is proximate; and

a grille-like plate is provided, arranged along said discharge duct inside said container.

21. (previously presented) The cartridge of claim 12, wherein said container has at an end face thereof a closing cover that is crossed by two holes that are connectable to the water feed ducts and are connected to said intake ports formed in said base disk,

Application/Control Number: 10/528,827
Art Unit: 3753
August 10, 2007
Page 5

said base disk resting on said cover with a face thereof lying opposite with respect to said mixing disk.

22. (previously presented) A single-lever mixing faucet, comprising a body in which a cavity is provided that is connected to a cold water feed duct and to a hot water feed duct and to a dispensing duct, wherein said cavity accommodates a mixing cartridge as set forth in claim 12, in which the intake ports of the base disk are connected to the water feed ducts and the discharge duct is connected to the dispensing duct.

23. (cancelled).

24. (new) The cartridge according to claim 19, wherein said lever and said shaft are arranged so as to cross inside said discharge conduit.

25. (new) The cartridge according to claim 12, wherein said mixing disk is formed in two parts, respectively a peripheral part and a central part, said central part being crossed by said mixing port and being provided with said seat.